

WE CLAIM:

*SJ*  
*DA*

1. A method of testing the adhesion of an electrical lead joined to a package, comprising the steps of,

holding the package and a portion of the lead in respective stationary

5 positions,

applying a force to the lead proximate an area where the lead is joined to the package, and

measuring the resistance of the lead to the force.

2. The method of claim 1 wherein the lead has an end region and wherein the step of holding a portion of the lead comprises holding the lead at the end region.

3. The method of claim 1 wherein the lead has an end region and wherein the step of holding a portion of the lead comprises holding the lead at a region between the end region and the area where the lead is joined to the package.

4. The method of claim 1 wherein the package is a ceramic package.

5. The method of claim 2 wherein the force applied to the lead is a pulling force.

20 6. The method of claim 2 wherein the force applied to the lead is a pushing force.

7. The method of claim 2 wherein the package has two opposing leads joined to it, wherein the opposing leads are held in respective stationary positions at their respective end regions, and wherein said steps of applying a force and measuring the resistance of the lead to the force, are successively performed on each of said opposing leads.

8. A device for testing the adhesion of conductive leads joined to a package, comprising,

first and second holding members for holding both the package and a portion of at least one lead therebetween in respective stationary positions, the holding members being capable of being separated from each other for removal and insertion of the package and leads, and of being closed with respect to each other for firmly holding the package and leads held therebetween.

9. The device of claim 8 wherein each of the first and second holding members has a first discrete region for holding the electrical package therebetween, a second discrete region for holding one lead therebetween and a third discrete region for holding another lead therebetween.

10. The device of claim 9 wherein said one lead and said another lead are leads which positionally oppose each other across the package.

11. The device of claim 10 wherein the leads have end regions and wherein the second and third discrete regions of the first and second holding means are situated such that they hold the leads therebetween at the end regions.

12. The device of claim 10 wherein the second and third discrete regions of the first and second holding means are situated such that they hold the leads in between the end regions and regions where the leads are joined to the package.

13. The device of claim 11 wherein the first and second holding means are closed with respect to each other by mechanical means linking the first and second holding means with each other.

14. The device of claim 13 wherein the mechanical means includes a screw and abutment against which the screw may be tightened, wherein there is compressible means between the screw and abutment.

15. The device of claim 13 in combination with a package having leads, which is held between the first and second holding members.

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16. The device of claim 13 wherein the first and second holding members each have an elongated cross piece and first, second and third arms extending from the cross piece wherein the ends of such arms comprise the first, second and third discrete regions

of the first and second holding means for holding the package and leads.

17. The device of claim 16 wherein the first discrete regions of the first and second holding means are larger than the second and third discrete regions.

18. The device of claim 17 wherein the ends of the arms are flat and are comprised of compliant material.

19. The device of claim 18 wherein the arms of one of the first and second holding members are the same length and wherein the first arm of the other of the first and second holding members is shorter than the second and third arms of such holding member.

20. The device of claim 19 wherein each of the first and second holding members has two threaded projections, one at each end of such member, and wherein said mechanical means includes screws which extend through the projections.

21. The device of claim 9 wherein one of said first and second holding members has a window through which a lead can be accessed by a pushing or pulling member.

22. An apparatus for testing the adhesion of an electrical lead joined to a package, comprising,

means for holding both the package and lead in respective stationary

positions,

means for applying a force to the lead proximate an area where it is joined to the package, and

means for measuring the resistance of the lead to the force.

23. The apparatus of claim 22 wherein the package is a ceramic package.

24. The apparatus of claim 22 wherein the means for holding comprises first and second holding members capable of being separated from each other to permit insertion and removal of the package and leads, and of being closed with respect to each other such that the package and leads are firmly held therebetween.

25. The apparatus of claim 24 wherein the first and second holding members each have an elongated cross piece and first, second and third arms extending from the cross piece for holding the electrical package and leads therebetween.